

## CLAIMS:

1. A gas-discharge lamp having a discharge vessel, two electrodes, a cap, an outer envelope, and a filling in the discharge vessel comprising a metal halide, characterized in that the outer envelope is partially coated with an optical compensating filter of a color complementary to the color of the metal halide.
- 5 2. A gas-discharge lamp as claimed in claim 1, characterized in that the compensating filter is applied in that region of the outer envelope that is the bottom region of the outer envelope when the lamp is fitted and operating.
- 10 3. A gas-discharge lamp as claimed in claim 1, characterized in that the compensating filter comprises an interference filter.
4. A gas-discharge lamp as claimed in claim 1, characterized in that the compensating filter comprises an absorption filter.
- 15 5. A gas-discharge lamp as claimed in claim 1, characterized in that an additional optical filter is provided for color shifting purposes.
6. A gas-discharge lamp as claimed in claim 1, characterized in that the compensating filter is applied in that region of the outer envelope that, in a lamp which is fitted and operating, is adjacent that region of the discharge vessel in which the non-gaseous proportion of the metal halide is situated.
- 20 7. A gas-discharge lamp as claimed in claim 1, characterized in that the coating forming the compensating filter is applied by a dip process.
- 25 8. A lighting unit, particularly for vehicle headlights, having a gas-discharge lamp as claimed in claim 1.